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JUN 11 2000

TECH CENTER 1600,2900

SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT: Gan, Zhong Ru
- (ii) TITLE OF INVENTION: Chaperone Mediated Protein Folding Method
- (iii) NUMBER OF SEQUENCES: 7
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Townsend and Townsend and Crew LLP
 - (B) STREET: Two Embarcadero Center, Eighth Floor
 - (C) CITY: San Francisco
 - (D) STATE: California
 - (E) COUNTRY: USA
 - (F) ZIP: 94111-3834
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 09/423,100
 - (B) FILING DATE: 11-DEC-2000
 - (C) CLASSIFICATION:
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: WO PCT/CN98/00052
 - (B) FILING DATE: 31-MAR-1998
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Mycroft, Frank J
 - (B) REGISTRATION NUMBER: 46,946
 - (C) REFERENCE/DOCKET NUMBER: 020167-000120US

(2) INFORMATION FOR SEQ ID NO:1:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 49 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (iii) SEQUENCE DESCRIPTION: SEQ ID NO:1:

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Phe | Pro | Thr | Ile | Pro | Leu | Ser | Arg | Leu | Phe | Asp | Asn | Ala | Met | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Arg | Ala | His | Arg | Leu | His | Gln | Leu | Ala | Phe | Asp | Thr | Tyr | Gln | Glu | Phe |
| | | 20 | | | | 25 | | | | | | | 30 | | |

Glu Glu Ala Tyr Ile Pro Lys Glu Gln Lys Tyr Ser Phe Leu Gln Asn
 35 40 45

Pro

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 92 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Met Phe Pro Thr Ile Pro Leu Ser Arg Leu Phe Asp Asn Ala Met Leu
 1 5 10 15
 Arg Ala His Arg Leu His Gln Leu Ala Phe Asp Thr Tyr Gln Glu Phe
 20 25 30
 Glu Glu Ala Tyr Ile Pro Lys Glu Gln Lys Tyr Ser Phe Leu Gln Asn
 35 40 45
 Pro Gln Thr Ser Leu Ser Phe Ser Glu Ser Ile Pro Thr Pro Ser Asn
 50 55 60
 Arg Glu Glu Thr Gln Gln Lys Ser Asn Leu Glu Leu Leu Arg Ile Ser
 65 70 75 80
 Leu Leu Leu Ile Gln Ser Trp Leu Glu Pro Val Gln
 85 90

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 6 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

Leu Gly Thr Gly Pro Arg
 1 5

(2) INFORMATION FOR SEQ ID NO:4:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 86 amino acids
 (B) TYPE: amino acid
 (C) STRANDEDNESS:
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Val | Asn | Gln | His | Leu | Cys | Gly | Ser | His | Leu | Val | Glu | Ala | Leu | Tyr |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |
| Leu | Val | Cys | Gly | Glu | Arg | Gly | Phe | Phe | Tyr | Thr | Pro | Lys | Thr | Arg | Arg |
| | | | 20 | | | | 25 | | | | | | 30 | | |
| Glu | Ala | Glu | Asp | Leu | Gln | Val | Gly | Gln | Val | Glu | Leu | Gly | Gly | Gly | Pro |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Gly | Ala | Gly | Ser | Leu | Gln | Pro | Leu | Ala | Leu | Glu | Gly | Ser | Leu | Gln | Lys |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| Arg | Gly | Ile | Val | Glu | Gln | Cys | Cys | Thr | Ser | Ile | Cys | Ser | Leu | Tyr | Gln |
| 65 | | | | | 70 | | | | | 75 | | | | | 80 |
| Leu | Glu | Asn | Tyr | Cys | Asn | | | | | | | | | | |
| | | | | | 85 | | | | | | | | | | |

(2) INFORMATION FOR SEQ ID NO:5:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 52 amino acids
 (B) TYPE: amino acid
 (C) STRANDEDNESS:
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Phe | Val | Asn | Gln | His | Leu | Cys | Gly | Ser | His | Leu | Val | Glu | Ala | Leu | Tyr |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |
| Leu | Val | Cys | Gly | Glu | Arg | Gly | Phe | Phe | Tyr | Thr | Pro | Lys | Thr | Arg | Gly |
| | | | 20 | | | | 25 | | | | | | 30 | | |
| Ile | Val | Glu | Gln | Cys | Cys | Thr | Ser | Ile | Cys | Ser | Leu | Tyr | Gln | Leu | Glu |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Asn | Tyr | Cys | Asn | | | | | | | | | | | | |
| | | | 50 | | | | | | | | | | | | |

P-1
(2) INFORMATION FOR SEQ ID NO:6:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 107 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Phe | Pro | Thr | Ile | Pro | Leu | Ser | Arg | Leu | Phe | Asp | Asn | Ala | Met | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Arg | Ala | His | Arg | Leu | His | Gln | Leu | Ala | Phe | Asp | Thr | Tyr | Gln | Glu | Phe |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Glu | Glu | Ala | Tyr | Ile | Pro | Lys | Glu | Gln | Lys | Tyr | Ser | Phe | Leu | Gln | Asn |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Pro | Leu | Gly | Thr | Gly | Pro | Arg | Phe | Val | Asn | Gln | His | Leu | Cys | Gly | Ser |
| | 50 | | | | | 55 | | | | | 60 | | | | |
| His | Leu | Val | Glu | Ala | Leu | Tyr | Leu | Val | Cys | Gly | Glu | Arg | Gly | Phe | Phe |
| 65 | | | | | 70 | | | | | 75 | | | | 80 | |
| Tyr | Thr | Pro | Lys | Thr | Arg | Gly | Ile | Val | Glu | Gln | Cys | Cys | Thr | Ser | Ile |
| | | | 85 | | | | | 90 | | | | | | 95 | |
| Cys | Ser | Leu | Tyr | Gln | Leu | Glu | Asn | Tyr | Cys | Asn | | | | | |
| | | 100 | | | | | | 105 | | | | | | | |

(2) INFORMATION FOR SEQ ID NO:7:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 150 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Phe | Pro | Thr | Ile | Pro | Leu | Ser | Arg | Leu | Phe | Asp | Asn | Ala | Met | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |
| Arg | Ala | His | Arg | Leu | His | Gln | Leu | Ala | Phe | Asp | Thr | Tyr | Gln | Glu | Phe |
| | | | 20 | | | | | 25 | | | | | 30 | | |
| Glu | Glu | Ala | Tyr | Ile | Pro | Lys | Glu | Gln | Lys | Tyr | Ser | Phe | Leu | Gln | Asn |
| | | 35 | | | | | 40 | | | | | 45 | | | |
| Pro | Gln | Thr | Ser | Leu | Ser | Phe | Ser | Glu | Ser | Ile | Pro | Thr | Pro | Ser | Asn |
| | 50 | | | | | 55 | | | | | 60 | | | | |

Arg Glu Glu Thr Gln Gln Lys Ser Asn Leu Glu Leu Leu Arg Ile Ser
65 70 75 80

Leu Leu Leu Ile Gln Ser Trp Leu Glu Pro Val Gln Leu Gly Thr Gly
35 90 95

Pro Arg Phe Val Asn Gln His Leu Cys Gly Ser His Leu Val Glu Ala
100 105 110

Leu Tyr Leu Val Cys Gly Glu Arg Gly Phe Phe Tyr Thr Pro Lys Thr
115 120 125

Arg Gly Ile Val Glu Gln Cys Cys Thr Ser Ile Cys Ser Leu Tyr Gln
130 135 140

Leu Glu Asn Tyr Cys Asn
145 150